

Appl. No. 09/862,678
Amdt. Dated Nov. 25, 2003
Reply to Office Action of Aug. 15, 2003

Amendments to Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-23 (canceled)

Claims 24 (new): A process for the production of carbon nanotubes; said process comprising:

- a) contacting catalytic nanoparticles with a hydrocarbon gas in a reaction zone, while holding the reaction zone at conditions suitable for the growth of carbon nanotubes, and applying an external magnetic field in order to grow carbon nanotubes,
- b) changing the direction of the magnetic field relative to the catalytic nanoparticles, and
- c) growing carbon nanotubes under magnetic fields of different directions as in step a).

Claim 25 (new): A process for the production of carbon nanotubes according to claim 1, wherein the catalytic nanoparticles are located on a substrate.

Claim 26 (new): A process for the production of carbon nanotubes according to claim 2, wherein the substrate is located on a sample holder in the reaction zone, and the step of changing the direction of the magnetic field is accomplished by rotating the sample holder.

Claim 27 (new): A process for the production of carbon nanotubes; said process comprising:

- a) contacting catalytic nanoparticles with a hydrocarbon gas in a reaction zone, while holding the reaction zone at conditions suitable for the growth of carbon nanotubes, and applying an external magnetic field,
- b) changing the strength of the magnetic field during the growth of the carbon nanotubes.

Claim 28 (new): A process for the production of carbon nanotubes; said process comprising:

- a) contacting catalytic nanoparticles with a hydrocarbon gas in a reaction zone, while holding the reaction zone at conditions suitable for the growth of carbon nanotubes, and applying an external magnetic field,
- b) changing the direction of the magnetic field during the growth of the carbon nanotubes.